



# HYDRO GEO CHEM, INC.

Groundwater Consultants

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Dec. 11, 1980

Mr. Pete Ballou  
Hydrologist, BIA  
P. O. Box 8327  
Albuquerque, N. Mexico 87189

Confidential Claim Retracted

Authorized by: 8

Date: 6/25/13

Dear Pete:

This is in regards to our conversation on Tuesday, Nov. 18th. We discussed the possibility of installing a water-level recorder on a well in the northwestern part of the Laguna Reservation. I have discussed this with Dr. Bentley and we agreed that the cost of obtaining and installing the recorder (and protective box) is not covered under Phase III of the contract (water quality monitoring design program). However, collection and interpretation of data from the well, and training of Laguna Indians to maintain this site would be part of this contract.

I am presently working up a small proposal for the cost of a Stevens Type F Recorder, 32-day clock, line and float, and a protective box; as well as the cost of a welder (from the Laguna Reservation, hopefully) to install the box on the wellhead. I will send the proposal to you soon.

I think the installation of a recorder on this (or another) well would be valuable for several reasons. 1) There is a lack of water-level data in areas away from uranium mines. 2) A continuous water-level record has several advantages over monthly water-level measurements. The most important may be that individual pumping wells can be identified and used to compute transmissivity, storage, and extent of the cone of depression. 3) The most valuable information is 'hard data' would be obtained that can be used to show impacts of mine dewatering.

Dennis Risser has doubts about whether water levels obtained so far are really influenced by mine activities. Will you talk this over with him? I value his opinion and think we should have his agreement before taking any action.

Can you send me more information on this well? I need its exact location, depth, well completion schedule, perforated (or open) interval, copies of available logs, and any pump test data.



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There are some other questions that perhaps you can help me with. The first has to do with testing that Conoco conducted on the Bernabe Montano Grant. In "Mining and Reclamation Plan for the Bernabe Project" (Conoco, 1977) they mention a pump test in the Westwater Formation on page 28. The results appear somewhat questionable. Do you have the raw data from this test or know where it can be obtained? Also, are there any monitoring wells in the Morrison Formation on the Montano Grant? Well information that we have shows that all the deep wells were abandoned.

Second we need any information on ground-water testing at the Sohio mine, St. Anthony mine (U.N. Corp), Marquez minesite (Bokun) and the Kerr-McGee minesite (T. 12N, R. 3W). I believe that most of these mines are on patented Indian lands; if so, are they under your jurisdiction?

Finally, there is much confusion here regarding the dewatering history at the Jackpile-Paquate mine. Anything you can do to help us in this regard would be greatly appreciated.

If you need more clarification on any of these requests please call. Thanks in advance for your help.

Sincerely yours,

*John J. Ward (SKB)*

John J. Ward

c. c. Les Taylor  
S. P. Neuman